

# Waterproof Turbidimeter



Waterproof TN100 Turbidimeter



- IP67 Waterproof & Floats
- EPA Approved
- Infrared System  
ISO 7027 Compliant
- Auto-Ranging
- Laboratory Accuracy
- Excellent Repeatability
- Easy Calibration
- Over 1200 Tests on a  
Single Set of 4-AAA  
Alkaline Batteries
- Rugged Carrying  
Case with Calibration  
Standards Included





- 1 Full segment LCD Display
- 2 Carrying case
- 3 Keypad with Tactile Feedback



The Waterproof TN100 turbidimeter is designed for portability and durability and is a "must have" for anyone monitoring turbidity on the go. The microprocessor-based TN100 turbidimeter uses an Infrared-LED light source and delivers unprecedented laboratory repeatability and accuracy with a resolution of 0.01 NTU across an extended range of up to 20 NTU<sup>#</sup>. This lightweight meter is a valuable analytical tool for field research and quality control.

### WATERPROOF HOUSING

IP67 rated Waterproof housing ensures durability and allows measurements even under wet conditions, meter even floats. Cleaning and maintenance is simple.

### STURDY CARRYING CASE

A sturdy compact carrying case allows neat storage space for meter, calibration standards, sample vials, plastic bottle for collecting sample, manual, battery pack, lint free cloth, and silicone oil.

### AUTO-RANGING UP TO 1000 NTU

Meter senses turbidity level of measured sample and automatically adjusts to the appropriate measurement range, eliminating guesswork.

### SIMPLE PUSH-BUTTON CALIBRATION

Simple calibration procedure is initiated at the touch of buttons and the instrument automatically prompts the user to the next calibration standard sequentially.

### LARGE EASY-TO-READ DISPLAY

The large custom LCD (Liquid Crystal Display) displays readings prominently complete with units of measure and user-friendly message codes that guide meter operation.

### ADVANCED POWER-SUPPLY MANAGEMENT

The TN100 meter is capable of measuring over 1200 test samples with a single set of 4 'AAA' alkaline batteries, delivering quick stable responses.

### ACCESSORIES

Meter is supplied with four primary calibration standards (0.02, 20.0, 100, 800 NTU) and 3 empty vials with light shield caps for sample collection at sites.

### APPLICATIONS

Drinking water • Petrochemical • Electroplating • Aquaculture • Swimming Pool • Food & Beverage industry.

### WARRANTY

Eutech Instruments supplies meter with 2-year warranty against manufacturing defects.

Note: The TN100 meets the performance criteria specified by ISO 7027 (DIN EN 27027) method (# Nephelometric Turbidity Units)

Note: We reserve the right to make changes, improvements and modifications to products shown.

### Specifications: Waterproof TN100

Measurement Method	ISO 7027 compliant nephelometric method (90°)
Measurement Range	0 to 1000 NTU
Automatic Range Selection	0.01 - 19.99 NTU 20.0 - 99.9 NTU 100 - 1000 NTU
Resolution	0.01 NTU (0 - 19.99 NTU) 0.1 NTU (20.0 - 99.9 NTU) 1 NTU (100 - 1000 NTU)
Accuracy	±2% of reading ±1 LSD for 0 to 500 NTU ±3% of reading ±1 LSD for 501 to 1000 NTU
Repeatability	±0.01 NTU or ±1% of reading, whichever is greater with gel samples
Response time	< 6 seconds for full step change
Calibration Standards	0.02 NTU; 20.0 NTU; 100 NTU; 800 NTU
Standardization	EPA-approved polymer-based primary standards
Light Source Life	> 1,000,000 tests
Light Source	Infrared-emitting diode (850nm wavelength)
Detector	Silicon photovoltaic
Stray Light	< 0.02 NTU
Display	4 digit 14 segment customised liquid crystal display with annunciators
Sample Vials	Borosilicate glass with screw caps, fill line and indexing mark 51 (H) x 25 (Dia)mm; (2x1 in)
Sample Volume Required	10 ml (0.33 oz)
Operating Temperature range	0 to 50 °C
Operating Humidity Range	0 - 90% RH, non-condensing at 30 °C (86 °F)
Power Supply	4 x "AAA" Alkaline Batteries (>1200 readings)
Enclosure Type & Rating	ABS Plastic / IP67 rated
Insulation Rating	Pollution Degree 2
Weight	Meter : 200 g (7 oz) Meter with case : 1.25 kg (2.75 lb)
Dimensions	Meter : 6.8 (W) x 15.5 (L) x 4.6 (H) cm; (2.7 x 6.1 x 1.8 in) Meter with Case : 16(W) x 35(L) x 12(H) cm; (6.3 x 13.8 x 4.7 in)

### ORDERING INFORMATION

Order No.	Item
EC-TN100IR	TN100 Infrared Turbidimeter with EC-TN100CALKT in carrying case kit
EC-TN100CALKT	Calibration kit set for EC-TN100 (0.02, 20.0, 100, 800 NTU)
EC-TN100CUVKT	Pack of 3 sample vials

Distributed By:

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